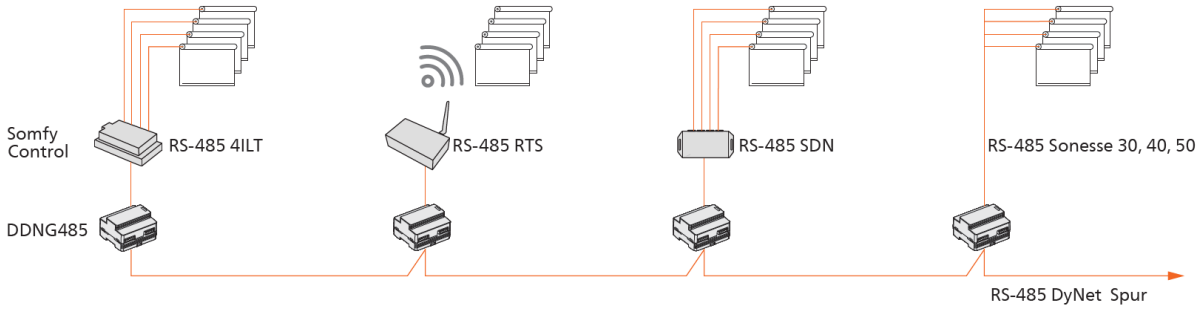
Motor control

Integration Overview

'Works with Dynalite' certification provides customers with confidence that a partner's integration with the Dynalite system is functionally sound and performs as designed. This helps integrators reduce deployment risk, lower total cost of ownership, and improve the user experience related to the integrated service.

Purpose

Somfy devices adjust incoming natural daylight by controlling drapery motors. Dynalite and Somfy systems work naturally together managing the interaction of artificial and natural light in buildings to maintain visual comfort. Integrated lighting and motorized shading results in a unified platform that enhances comfort, energy efficiency, and automation.



Capabilities

- Bi-directional control between Somfy and DyNet systems.
- Each DDNG485 gateway controls up to 64 Somfy addresses (with multiple motors per address).
- Preset scenes simultaneously recall saved settings for lights, shading and other room services.
- Multiple user-set intermediate positions available.
- Daylight harvesting saves energy by using natural light instead of artificial lighting.
- Light balancing manages the levels of natural and artificial light.
- Full logical control for perfect alignment and repeatable motor positioning without the need for re-calibration.
- Automatic discovery of Somfy controllers and motors on the Somfy network and retrieval of Somfy settings from existing Somfy installations.
- Galvanic isolation between the two systems.
- Control motors individually or in groups with the option to create different scenes.

Integration method

System integration is achieved using the Dynalite DDNG485-Somfy Gateway. Port 1 connects to the Dynalite RS-485 network and Port 2 connects to the Somfy RS-485 network. RS-485 serial commands are sent between the motors and the DDNG485-Somfy.

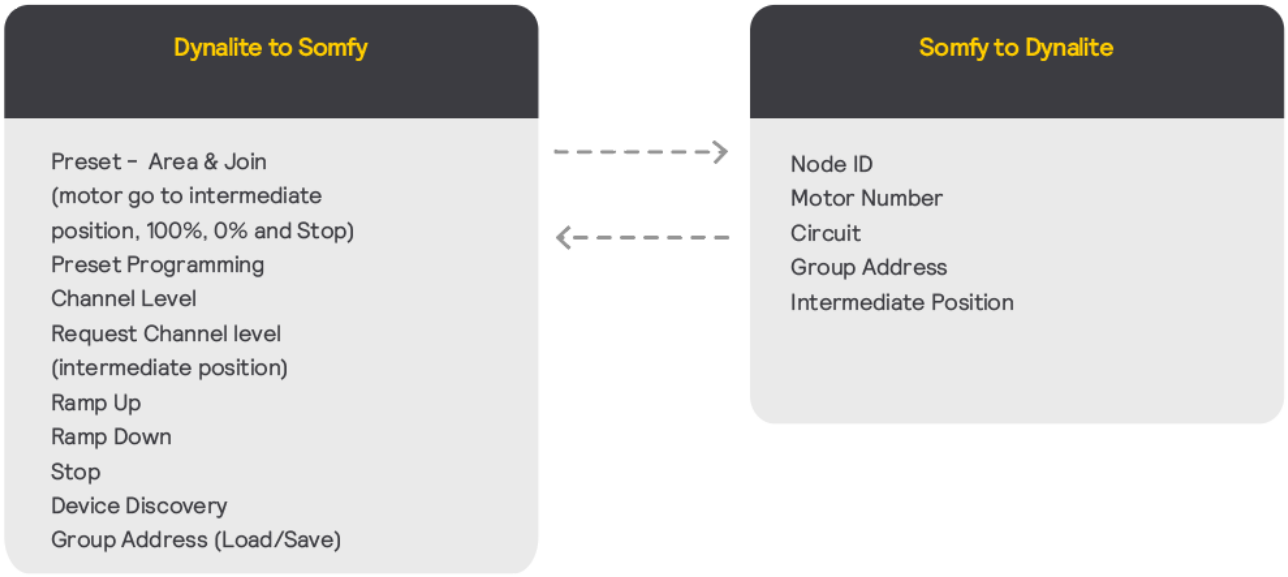
The gateway maps the DyNet logical configuration to the Somfy devices on the Somfy Network. Individual motors can be given a logical address and operated using standard Dynalite preset and channel level commands with live position feedback or error feedback.

The gateway maps Somfy logical information such as group addresses and motor commands to the Dynalite network. Somfy UIs can also control the lighting in the Dynalite system.

Technical Requirements

Dynalite environment	Partner environment
DDNG485 RS-485/DMX512 Gateway	Compatible blind/curtain motors or motor controllers and associated power supplies
PC with System Builder software to configure the DDNG485-Somfy	Quick setting with the RS-485 limit setting tool to program Individual address (Node ID) for each motor
System Builder cannot program intermediate positions for RTS devices	Correct DDNG485 connection for each controller/motor
Tasking may be required for Sonesse 40 and newer Somfy motors	The following Somfy motors/controllers are supported: • 4ILT • RTD • SDN • Sonesse 30, 40 and 50
For connection and commissioning information please refer to the **DyNet to Somfy Gateway Commissioning Guide**.	

Dataflow Diagram



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